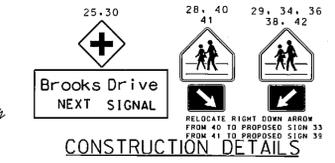
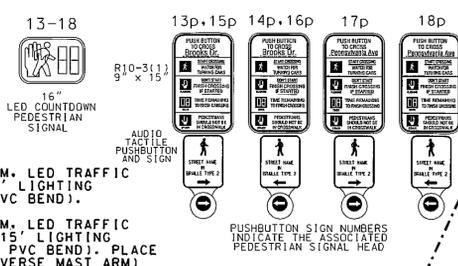


BY: \$USERNAMES\$

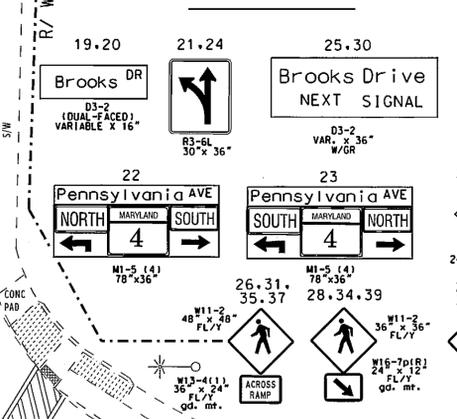
EXISTING SIGNS TO BE REMOVED AND OR REPLACED



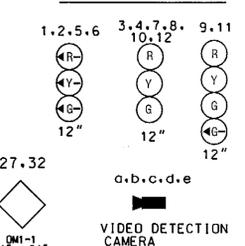
EXISTING PEDESTRIAN EQUIPMENT



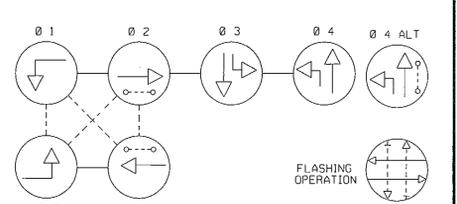
PROPOSED SIGNS



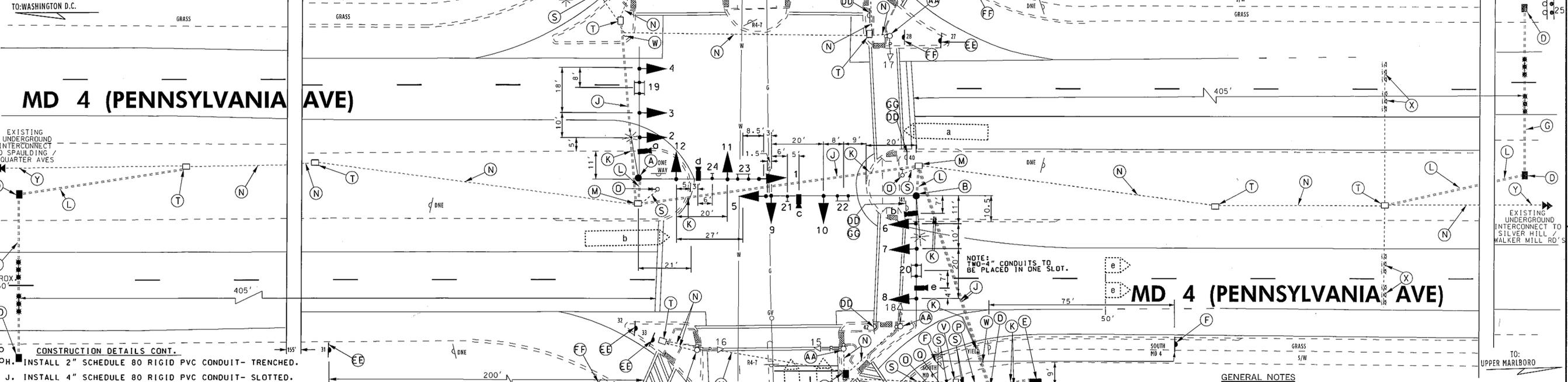
PROPOSED SIGNAL HEADS



NEMA PHASING



- A. INSTALL 27' STEEL POLE WITH TWIN 50' / 60' MAST ARM. LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERA, SIGNS, AND 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3" 90° PVC BEND).
- B. INSTALL 27' STEEL POLE WITH TWIN 50' / 60' MAST ARM. LED TRAFFIC SIGNAL HEADS, VIDEO DETECTION CAMERAS, SIGNS, AND 15' LIGHTING ARM WITH 250 WATT HPS LUMINAIRE. (NOTE: 1-3" 90° PVC BEND). PLACE THE 60' MAST ARM FOR BROOKS RD. (NOTE: ALTERNATE/REVERSE MAST ARM)
- C. INSTALL 100 AMP METERED SERVICE PEDESTAL WITH 4" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED TO THE BASE OF CLASS 11 WOOD POLE, PROVIDE 1" STUB AND 40' OF COILED (THREE LENGTHS OF) 1 CONDUCTOR NO.4 AWG THHN/THWN CABLE FOR INSTALLATION OF SERVICE.
- D. INSTALL ELECTRICAL HANDHOLE.
- E. INSTALL NEMA CONTROLLER WITH ALL NECESSARY EQUIPMENT HOUSED IN A SIZE '6' BASE-MOUNTED CABINET.
- F. RELOCATE EXISTING SIGNS ON NEW SUPPORTS AS INDICATED.
- G. INSTALL NON-INVASIVE DETECTORS WITHIN 3" SCHEDULE 80 RIGID PVC CONDUIT - BORED.



- CONSTRUCTION DETAILS CONT.**
- PH. INSTALL 2" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
  - J. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- SLOTTED.
  - K. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
  - L. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT- TRENCHED.
  - M. USE EXISTING HANDHOLE. PULL BACK DISCONNECTED INTERCONNECT CABLES. COIL AND STORE TO BE RE-ROUTED TO PROPOSED CONTROLLER / CABINET.
  - N. USE EXISTING CONDUIT.
  - O. REMOVE EXISTING SIGNAL STRUCTURE AND ATTACHED EQUIPMENT. FOUNDATION SHALL BE REMOVED 12" BELOW GROUND GRADE.
  - P. REMOVE EXISTING CONTROLLER/CABINET AND EQUIPMENT WITH THE FOUNDATION REMOVED 12" BELOW GROUND GRADE.
  - Q. INSTALL CLASS 11 WOOD POLE AND RISER, FOR THE RELOCATION OF OVERHEAD ELECTRICAL SERVICE FROM PEPCO UTILITY POLE NO. 870538.
  - R. REMOVE EXISTING HANDHOLE. INSTALL BRICK HANDHOLE. NOTE: EXISTING CONDUIT AND THE PROPOSED CONDUIT ARE REQUIRED. WHEN PROJECT IS COMPLETE THE CONDUIT TO THE CABINET HANDHOLE SHALL HAVE THE CABLES REMOVED AND BE CAPPED.
  - S. CAP AND ABANDON EXISTING CONDUIT. REMOVE UNUSED CABLES IN ADJOINING HANDHOLE.
  - T. USE EXISTING HANDHOLE.
  - U. REMOVE EXISTING RAMP AND INSTALL STANDARD MD 655.13 RAMP AND CURB/GUTTER WITH MD 655.40 WARNING DETECTION SURFACE 2' WIDE THE LENGTH OF THE RAMP OPENING.
  - V. REMOVE EXISTING HANDHOLE, AND UNUSED CABLES. CAP AND ABANDON CONDUIT.
  - W. REMOVE AND RE-PLACE EXISTING CONCRETE SIDEWALK.
  - X. DISCONNECT AND ABANDON EXISTING PROBES.
  - Y. MAINTAIN EXISTING INTERCONNECT CONDUIT AND CABLE.
  - Z. RELOCATE SERVICE FEED BY OTHERS.
  - AA. USE EXISTING PEDESTAL POLE AND EQUIPMENT. REWIRE TO NEW CONTROLLER / CABINET.
  - BB. REMOVE EXISTING NEXT SIGNAL SIGNS AND SUPPORTS. INSTALL PROPOSED SIGN ON (2) 4"x6" DRILLED WOOD POST.
  - CC. INSTALL PUPPY TRACKS 3' LINE/3' GAP AS INDICATED.
  - DD. REMOVE EXISTING GROUND MOUNTED SIGN.
  - EE. INSTALL GROUND MOUNTED SIGN AND 4"x4" WOOD POST.
  - FF. REMOVE EXISTING S1-1 SIGN AND INSTALL W11-1 SIGN. USE EXISTING SUPPORT.
  - GG. REMOVE EXISTING W16-7p(R) AND INSTALL ON SIGN 33 OR 39

- GENERAL NOTES**
1. VIDEO CAMERA LOCATION / ALIGNING SHALL BE COORDINATED WITH THE SHA ENGINEER.
  2. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE AND CABINET LOCATIONS PRIOR TO INSTALLATION.
  3. ALL PAVEMENT MARKINGS DETAILED ARE TO BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
  4. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR. RIGHT OF WAY
  5. ALL PROPOSED LUMINAIRES SHALL BE SUPPLIED WITH A PHOTOCCELL.
  6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO APPROPRIATE TERMINAL AND PROPERLY LABEL EACH CABLE.
  7. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
  8. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTION. HIGHEST ROADWAY PROFILE GRADE OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL PROPOSED EQUIPMENT.
  9. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
  10. PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THEN 18 INCHES FROM A 60" x 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THEN OR EQUAL TO 2%.
  11. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON MUST MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION. "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED. APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

**CENTURY ENGINEERING**  
CONSULTING ENGINEERS - PLANNERS  
10710 GILROY ROAD  
HUNT VALLEY, MD 21031  
Phone: (410) 823-8070 Fax: (410) 823-2184

GEOMETRIC LEGEND	
---	EXISTING
---	PROPOSED

UTILITY LEGEND	
SD	STORM DRAIN
G	GAS MAIN
W	WATER MAIN
S	SEWER MAIN
E	ELECTRIC CABLES
A	AERIAL CABLES
T	TELEPHONE CABLES
F	FIBER-OPTIC

APPROVALS	REVISIONS																						
<table border="1"> <tr><td>TEAM LEADER</td><td>ON</td></tr> <tr><td>ASST. DIV. CHIEF</td><td>FILE</td></tr> <tr><td>DIVISION CHIEF</td><td></td></tr> <tr><td>OFFICE DIRECTOR</td><td></td></tr> </table>	TEAM LEADER	ON	ASST. DIV. CHIEF	FILE	DIVISION CHIEF		OFFICE DIRECTOR		<table border="1"> <tr><td>10/2009</td><td>REC'D TO MAST ARM VIDEO DET. USE EX. PEOS. UPDATE XING SIGNS SHA* XX351518 TMS* K030</td></tr> <tr><td>EMM</td><td>10/14/08</td></tr> <tr><td>D</td><td>UPDATE TO LED SH 8/14/08 APS &amp; CO PED HEADS SHA* XX4445185 TMS* J038</td></tr> <tr><td>JA</td><td>SDY WM</td></tr> <tr><td>DJD</td><td></td></tr> <tr><td>5/2003</td><td>INSTALL PEDESTRIAN SIGNALS &amp; CROSSWALKS SHA*AT2885185 TMS*PG76</td></tr> <tr><td>AMH</td><td>WM MAR DAZ BRK</td></tr> </table>	10/2009	REC'D TO MAST ARM VIDEO DET. USE EX. PEOS. UPDATE XING SIGNS SHA* XX351518 TMS* K030	EMM	10/14/08	D	UPDATE TO LED SH 8/14/08 APS & CO PED HEADS SHA* XX4445185 TMS* J038	JA	SDY WM	DJD		5/2003	INSTALL PEDESTRIAN SIGNALS & CROSSWALKS SHA*AT2885185 TMS*PG76	AMH	WM MAR DAZ BRK
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**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION

**MD 4(PENNSYLVANIA AVE) AT BROOKS DRIVE  
IN DISTRICT HEIGHTS, MD**

TRAFFIC SIGNALIZATION PLAN	
SCALE: 1" = 20'	ADVERTISED DATE: / / CONTRACT NO.: PG484A55
DESIGNED BY: EMM	COUNTY: PRINCE GEORGE'S
DRAWN BY: EMM	LOGMILE: 16000412.60
CHECKED BY: <i>gdp</i> 10/19/09	TMS NO.: K030
F.A.P. NO.:	TOD NO.:
TS NO. 963E	DRAWING OF SHEET NO. 1 OF 2

PLOTTED: 10/21/09 10:15 AM  
FILE: SP1ES